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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/893,421	06/29/2001	Juha Salo	004770.00722	5222
22907 BANNER & V	7590 06/29/2007 /ITCOEF 1 TD	EXAMINER		
BANNER & WITCOFF, LTD. 1100 13th STREET, N.W.			SALTARELLI, DOMINIC D	
SUITE 1200 WASHINGTON, DC 20005-4051			ART UNIT	PAPER NUMBER
	,		2623	
			MAIL DATE	DELIVERY MODE
			06/29/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		Application No.	· Applicant(s)				
		09/893,421	SALO ET AL.				
		Examiner	Art Unit				
		Dominic D. Saltarelli	2623				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHIC - Exte after - If NC - Failt Any	HORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING Does not so time may be available under the provisions of 37 CFR 1.13 or SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI 36(a). In no event, however, may a will apply and will expire SIX (6) MON a, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status							
1)🖂	Responsive to communication(s) filed on 30 N	ovember 2006.					
. 2a)□	This action is FINAL . 2b)⊠ This action is non-final.						
3)[•						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	tion of Claims						
4)⊠)⊠ Claim(s) <u>45-100</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
-	Claim(s) <u>45-100</u> is/are rejected.						
· ·	Claim(s) is/are objected to.						
8)[]	Claim(s) are subject to restriction and/o	r election requirement.					
Applicat	tion Papers						
9)□	The specification is objected to by the Examine	er.	·				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the Ex	kaminer. Note the attache	d Office Action or form PTO-152.				
Priority	under 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority document Certified copies of the priority document	s have been received.					
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
<i>†</i> :	See the attached detailed Office action for a list	of the certified copies not	received.				
Attachmei		_					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) (s)/Mail Date				
3) Info	rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date		Informal Patent Application				

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DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 45-100 submitted on November 30,
 2006 have been considered but are most in view of the new grounds of rejection.

2. Applicant's arguments with respect to claims 45-100 submitted on May 7, 2007 have been considered but are not persuasive.

Applicant argues that Banker does not teach a "plurality of hierarchically modulated simultaneously transmitted data streams" (applicant's remarks, pages 13-14), asserting that the data streams are multiplexed serially on a single data channel by referring to col. 10, lines 37-38 and fig. 5a of Banker.

In response, first, it must be noted that the portions of Baker cited by applicant have no bearing on whether the cited data streams are hierarchically modulated or simultaneously transmitted. Col. 10, lines 37-38 refer to the channel that is used simply to transfer the data from the headend controller to the scramblers and data inserters, and fig. 5a simply illustrates a baseband video signal. The streams are ultimately modulated together for simultaneous transmission from combiner 106 (see fig. 1). The modulation is according to a hierarchy because the differently prioritized streams are addressed to different channels [modulators] (see col. 11, lines 14-17 and col. 12, lines 6-18).

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 45-100 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gotwald (5,987,518, of record) in view of Banker et al. (5,497,187) [Banker].

Regarding claims 45, 50, 56, 57, 59, 63, 64, 74, 82, 92, and 96, Gotwald discloses a system for delivering content over a hierarchical network comprising a source of content deliverable, to a network (col. 3, lines 25-50), the network including head end equipment operable to place content into one a plurality of selected data streams (col. 4, lines 43-54) in response to requests received via a network gateway (the invention is providing internet access, col. 1, lines 36-67), and a terminal operable to receive the data stream (col. 3, lines 51-65), wherein the head-end equipment classifies the content and in accordance with the classification places it into the data stream (col. 4 line 55 – col. 5 line 22).

Gotwald fails to disclose the data streams are corresponding hierarchically modulated data streams that are simultaneously transmitted.

In an analogous art, Banker discloses placing differently prioritized data into different streams which are simultaneously transmitted, such that higher priority data is in a separate data stream and unaffected by lower priority data which has been transmitted in a separate data stream (col. 11, lines 1-17).

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It would have been obvious at the time to a person of ordinary skill in the art to modify the system disclosed by Gotwald to include the data streams are corresponding hierarchically modulated data streams that are simultaneously transmitted, as taught by Banker, for the benefit of separating data streams so that lower priority data will not interfere with the transmission of higher priority data.

Regarding claim 46, Gotwald and Banker disclose the device of claim 45, wherein a classification of the content is made in accordance with a data type of the content (Gotwald, col. 5, lines 7-16).

Regarding claim 47, Gotwald and Banker disclose the device of claim 46, wherein Gotwald teaches the classifier is connectable to a data stream of content in the form of data elements (col. 5 line 57 – col. 6 line 3) and a splitter is connected to the output of the classifier (as shown in fig. 4, splitting the data onto output FIFOs) wherein the classifier identifies the data type of each element of the data streams and inserts a marker into said data streams indicative of a priority assigned to the element such that the splitter subsequently places each data element, in accordance with the marker, into a corresponding hierarchical transport stream for subsequent transmission by the network (col. 6, lines 4-13).

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Regarding claims 48 and 65, Gotwald and Banker disclose the device of claims 46 and 47, wherein Gotwald teaches a look-up table accessible in use by the classifier, the table comprising a set of profiles, each profile including a definition of a priority for a particular data type wherein a selection by the classifier of the particular profile for identifying the data type of each element is determined by the network (col. 6, lines 4-13).

Regarding claims 49, 51, 52, 58, 62, 66-70, 75, 76, 78, 80, 81, 90, 93, and 94, Gotwald and Banker disclose the device, method, and system of claims 45, 50, 51-56, 59, and 60, wherein the hierarchically modulated simultaneously transmitted data streams are ranked in accordance with a predetermined criteria [profiles] (Banker, col. 11, lines 1-17).

Regarding claims 53-55, 60, 77, 83, 88, 89, 95, 97, 99, and 100, Gotwald and Banker disclose the method of claims 52 and 59, wherein the network determines the selection profile on the basis of an intended recipient of the content, on the basis of a service providing the content, or on the basis of a network load (Gotwald, col. 6, lines 4-14 where priorities are based on source or destination IP address, and col. 6, lines 34-39, wherein priority is adjusted to maintain throughput [consideration of network load]).

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Regarding claims 61, 71-73, 79, 84-87, 91, and 98, Gotwald and Banker disclose the method of claims 51-54, 59, and 62, wherein the request is received in a return channel established by a terminal of a public land mobile network via a public switched telephone network (Gotwald, standard network 20, fig. 1, col. 3, lines 33-39) and the content element is delivered over a broadband broadcast network [DVT-B] (Gotwald, broadband channel 16, fig. 1, col. 3, lines 48-50).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dominic D. Saltarelli whose telephone number is (571) 272-7302. The examiner can normally be reached on Monday - Friday 9:00am - 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller can be reached on (571) 272-7353. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DS

ANDRÉW Y. KOENIG PRIMARY PATENT EXAMINER